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		U.S. PATENT	DOCUMENTS		,	~ <del>~~~</del>
+EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE UP APPROPRIATE
18	3,633,100	1/4/1972	leilweil, et al.	324	73	5/12/19
4	3,651,315	3/21/1972		235	151.31	4/29/19
	3,657,527		Kassabgi, et al.	235	153	10/16/19
	3,723,868	3/27/1973		324	73 AT	1/21/19
	3,739,193	6/12/1973	Pryor	307	205	1/11/19
	3,789,359	1/29/1974	Clark, Jr., et al.	340	146.1D	10/4/19
	3,824,678	7/23/1974	larris, et el.	29	578	8/31/19
	3,826,909	7/30/1974	vashin	235	153 AC	3/29/19
	3,831,149	8/20/1974		340	172.5	2/14/18
	3,838,264	9/24/1974	<i>N</i> aker	235	153 AM	11/23/19
	3,873,818	3/25/1975	Bamard	253	153 AC	10/29/19
	3,976,940	8/24/1976	Chau, et al.	324	73 R	2/25/19
	4,023,142	5/10/1977 V	Voessner	340	172.5	4/14/19
	4,066,882	1/3/1978	sposito	235	302	8/16/19
	4,088,375	4/25/1978 L	aChapelle, Jr., et a	al. 427	90	11/7/18
	4,092,733	5/30/1978	Coontz, et al.	365	200	5/7/19
	4,108,359	8/22/1978 F	roto	235	304	3/30/19
	4,146,835	3/27/1979	hnapko, et al.	324	73 R	3/8/19
	4,161,276	7/17/1979		235	302	3/1/18
	4,216,539		Raymond, et al.	371	20	5/5/18
	4,242,751		lenckels, et al.	371	26	2/24/19
	4,264,807	4/28/1981 N	loen, et al.	235	92 GD	4/9/19
	4,268,902	5/19/1981 B	erglund, et al.	364	200	
	4,286,173	8/25/1981		307	440	10/23/19 3/27/19
	4,308,616	12/29/1981 T	imoc	371	23	5/29/19
	4,309,787		ndow, et al.	371	24	8/21/19
	4,312,088	1/19/1982 B		371	16	12/28/19
	4,339,710	7/13/1982 H		324	73 R	2/12/19
	Re. 31,056	10/12/1982 C		324	73 R	5/28/19
	4,357,703	11/2/1982 V		371	15	10/9/19
1	4,385,334	12/21/1982 S	mith, et al.	371	27	2/9/19
	4,366,478	12/28/1982 M	asuda, et al.	340	825	1/5/19
	4,390,969	6/1/1983 H		395	550	4/21/198
0	4,426,697		etersen, et al.	340	825.52	1/24/198
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06	4,433,413	2/21/1984 Fas		371		
	4,439,858	3/27/1984 Pet		371	25	10/22/19 5/28/19
	4,441,075	4/3/1984 Mc		324	73 R	7/2/19
<del></del>	4,483,002	11/13/1984 Gro		371	29	4/19/19
1	4,484,329	11/20/1984 Sla		371	25	8/10/19
	4,488,259	12/11/1984 Me		364	800	10/29/11
	4,493,077	1/8/1985 Agr		371	25	9/9/1
	4,494,086	1/15/1985 God		324	73 R	7/2/1
	4,498,172	2/5/1985 Bha		371	25	7/28/1
1	4,503,536		3/5/1985 Panzer 3/12/1985 Goel, et al. 4/1/1985 Sheets 4/23/1985 Bardell, Jr, et al.		25	9/16/19
	4,504,784				73R	7/2/1
	4,513,373				200	12/28/1
	4,513,418				25	11/8/1
	4,514,845	4/30/1985 Starr		371	15	8/23/1
	4,519,078	5/21/1985 Kor		371	25	9/29/1
1	4,534,028	8/6/1985 Tris	<del></del>	371		<del></del>
1	4,553,090	11/12/1985 Hat		324	73 AT	12/1/19 7/23/19
1	4,575,674	3/11/1986 Bas		324	73 R	.7/1/19
1	4,577,318	3/18/1986 Wh		371	1	11/14/19
	4,587,609	5/1/1986 Bou		395	726	7/1/1
	4,594,711	6/10/1986 Tha		371	25	11/10/11
	4,597,042	6/24/1986 d'Ai		364	200	9/13/19
	4,597,080	6/24/1986 Tha		371		
	4,598,401	7/1/1986 Wh		371	25 25	11/14/19 6/25/19
	4,601,034	7/15/1986 Srid	har	371	25	
	4,602,210	7/22/1986 Fas		324	73	3/30/19 12/28/19
	4,612,499	9/18/1986 And		324	73 R	11/7/19
	4,615,029	9/30/1986 Hu,		370	89	
	4,618,956	10/21/1986 Hon		371	68	12/3/19
	4,621,363	11/4/1986 Blur		371	25	9/29/19 12/8/19
	4,627,018	12/1/1986 Tros		395	476	9/8/19
	4,628,511	12/9/1986 Stitz		371	22	2/25/19
	4,635,193	1/8/1987 Moy		364	200	<del></del>
1.13	4,635,261	1/6/1987 And		371	25	6/27/19 1/26/19
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CI	5	4,638,313	1/20/1987	Sherwood	l, et al.	340	825.52	11/8/1984			
1		4,648,298	2/1/1987	Laws, et a	al.	371	16	5/1/1984			
		4,642,581	2/10/1987	Graves, e	t al.	324	73 R	6/13/1983			
		4,646,299	2/24/1987			371	20	8/1/1983			
		4,651,088	3/17/1987			324	73R	5/6/1985			
		4,669,081	5/26/1987	Bhavsar		365	154	12/21/1984			
		4,872,307	6/9/1987	Breuer, e	t al.	324	73 R	12/20/1985			
		4,674,089	6/16/1987	Poret, et a	el.	371	- 25	4/16/1985			
		4,679,192		Vanbrabant		340	825.52	1/24/1986			
		4,680,539	7/14/1987	Tsai		324	73	12/30/1983			
		4,680,733	7/14/1987	Duforestel		364	900	10/29/1984			
		4,683,569	7/28/1987	Rubin		371	25	10/21/1985			
		4,687,988		Eichelberger, et al.		324	73 AT	8/24/1985			
		4,694,293		Sugiyama, et al.		340	825.68	9/16/1985			
		4,698,588		Hwang, et al.		324	73 R	10/23/1985			
		4,701,916	10/20/1987			371	15	3/17/1986			
		4,701,920	10/20/1987	Resnick, et al.		371	25	11/8/1985			
		4,701,921	10/20/1987			371	25	10/23/1985			
		4,710,931	12/1/1987	Bellay, et	al.	371	25	10/23/1985			
		4,710,932	12/1/1987			371	25	1/15/1986			
		4,710,933	12/1/1987		al.	371	25	10/23/1985			
		4,734,921	3/29/1988	Giangano	et al.	377	72	11/25/1986			
		4,740,970	4/26/1988			371	15	12/11/1985			
		4,743,841	5/10/1988			324	73 R	5/20/1985			
		4,752,929	6/21/1988	Kantz, et a	31.	371	21	3/25/1986			
		4,759,019	7/19/1988			371	3	7/10/1986			
		4,763,066	8/9/1988			324	73R	7/23/1986			
		4,764,926	8/16/1988	Knight, et	al.	371	25	12/11/1985			
		4,777,616	10/11/1988	Moore, et al.		364	900	5/12/1986			
		4,783,785	11/8/1988			371	25	1/5/1987			
		4,788,683	11/29/1988	lester, et	al.	371	20	1/14/1986			
		4,791,358	12/13/1988			324	73 R	9/2/1986			
-		4,799,052	1/1/1989	Vear, et al		340	825.52	1/13/1986			
CD		4,799,004	1/17/1989	Nori		324	73 R	1/25/1988			
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CB	4,800,418	1/24/1989	Natsui		357	68	9/8/1984		
	4,802,163	1/31/1989	Hirabayshi		371	15	12/29/1986		
	4,808,844	2/28/1989	Ozaki, et a	ıl.	307	243	4/17/1986		
	4,811,299		Miyazawa,	et al.	365	201	4/22/1987		
	4,812,678	3/14/1989	Abe		307	443	3/23/1987		
	4,817,093	3/28/1989	Jacobs, et	al.	371	25 .	6/18/1987		
<u> </u>	4,819,234	4/4/1989			371	19	5/1/1987		
	4,821,269		Jackson, et al.		371	16	10/23/1986		
	4,825,439	4/25/1989	Sakashita, et al.		371	15	8/18/1987		
· · · · ·	4,833,395		Sasaki, et al.		324	73 R	10/23/1987		
	4,833,676	5/23/1989	Koo		371	15	7/30/1987		
	4,855,954		Turner, et al.		365	185	3/4/1985		
	4,857,835	8/15/1989	<del></del>		324	73	11/5/1987		
	4,860,288		Teske, et al.		371	1	10/23/1987		
	4,860,290		Daniels, et al.		371	25 .	6/2/1987		
	4,882,071		Sato, et al.		324	73 R	11/18/1988		
	4,882,072		Harris, et a		324	73 R	9/8/1988		
	4,864,570		Savaglio, e		371	22.4	6/29/1987		
	4,864,579		Kishida, et		371	22.3	8/3/1987		
	4,866,508		Eichelberg		357	74	9/26/1986		
	4,870,345		Tomioka, e	t al.	371	22.3	8/3/1987		
	4,872,169	10/3/1989			371	22.3	3/8/1987		
	4,875,003	10/17/1989			324	73 R	2/21/1989		
	4,878,168	10/31/1989			364	200	10/29/1986		
	4,879,717		Sauerwald		371	22.3	9/2/1986		
	4,887,262	12/12/1989		izen	370	85.1	3/15/1988		
	4,887,267	12/12/1989			371	22.3	12/28/1987		
	4,893,072		Matsumoto	<u>'</u>	371	223	6/22/1988		
<del></del>	4,894,830	1/16/1990			371	22.3	1/19/1988		
	4,898,262		Wayama, e		364	200	2/22/1985		
	4,897,842 4,899,273		Herz, et al.		371	22.4	11/5/1987		
Ch	4,903,266	2/20/1990	Omoda, et	8J.	364	200	12/10/1986		
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CB	4,907,230	3/6/1990	Heller, et a	al.	371	22.1	2/29/1988
	4,910,735		Yamashita		371	22.4	12/17/1987
	4,912,633	3/27/1990	Schweizer	, et al	364	200	10/24/1988
	4,912,709	3/27/1990	Teske, et	el.	371	22.1	10/23/1987
	4,918,379	4/17/1990	Jongepier		324	73.1	8/31/1988
	4,924,468	5/8/1990	Horak, et a	al.	371	22.1	11/16/1988
	4,926,425	5/15/1990	Hedtke, et	al.	371	22.6	6/9/1988
	4,929,889	5/29/1990	Seiler, et al.		371	22.3	6/13/1988
	4,935,868	6/1/1990	DuLac		364	200	11/28/1988
	4,930,216	6/5/1990	Neison		29	854	3/10/1989
	4,931,722	6/5/1990	Stoica .		371	22.5	11/7/1985
	4,931,723		Jeffrey, et al.		371	22.3	12/18/1985
	4,937,826	6/26/1990	Gheewala	, et al.	371	22.1	9/9/1988
	4,943,966	7/24/1990	Giunta, et al. Hancu		371	11.1	4/8/1988
	4,945,536	7/31/1990			371	22.3	9/9/1988
	4,947,108	8/7/1990			324	73.1	3/31/1988
	4,947,357	8/7/1990	Stewart, e	t al.	371	22.3	2/24/1988
	4,956,602	9/11/1990	Parrish		324	158 R	2/14/1989
	4,961,053	10/2/1990			324	158 R	7/24/1985
	4,969,121		Chan, et a		364	900	3/2/1987
	4,974,192	11/27/1990	Face, et al		364	900	7/23/1987
	4,974,226	11/27/1990			371	22.3	9/22/1988
	4,989,209		Littlebury,		371	22.1	3/24/1989
	4,992,985		Miyazawa,	et al.	365	201	4/22/1987
	5,001,713	3/19/1991			371	22.3	2/8/1989
	5,008,885		Huang, et	el.	371	3	12/29/1988
	5,014,186		Chisholm		395	850	8/1/1986
	5,023,872		Annamalai		371	5.1	3/25/1988
	5,042,005		Miller, et al		364	900	8/19/1988
	5,051,996	9/24/1991	Bergeson,	et al.	371	22.4	3/27/1988
C Z	5,053,949		Allison, et a	al.	364	200	4/3/1989
	5,054,024	10/1/1991	VVhetsel		371	22.3	8/9/1989
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	5,077,740	12/31/1991	Kanuma		371	22.3	1/30/198	
	5,084,814	1/28/1992		et al.	395	325	10/30/198	
	5,084,874	1/28/1992	Whetsel		371	22.3	9/7/198	
	5,090,015	2/18/1992		et al.	371	22.5	2/8/198	
	5,103,450	4/7/1992	Whetsel		714	724	2/8/198	
	5,109,383	4/28/1992	Chujo		371	22.3	9/1/198	
	5,128,664	7/1/1992	Bishop		340	825.52	5/5/198	
	5,133,062	7/1/1992	2 Joshi, et al.		395	500	3/8/198	
	5,159,485	10/1/1992	2 Maemura, et al.		326	73	10/5/198	
	5,155,432	10/13/1992	2 Mahoney		324	158 R	10/7/198	
	5,161,160	11/3/1992	Yaguchi, et al.		371	22.3	2/1/199	
	5,167,020		2 Kahn, et al. 2 Fujieda, et al.		. 395	250	5/25/198	
	5,170,398	12/8/1992			371	27	7/18/199	
	5,173,908	12/22/1992	Dreibelbis	s, et al.	371	22.5	8/31/199	
	5,187,795	2/1/1993	Balmforth	, et ad.	395	800	1/27/198	
	5,214,760	5/1/1993	Hammon	d, et al.	395	250	8/26/198	
	5,218,702	6/1/1993	Kirtland		395	298	7/6/198	
	5,276,807	1/1/1994	Kodoma,	et al.	395	309	4/13/198	
	5,303,148	4/12/1994	Mattson,	et al.	364	413.01	11/27/19	
	5,329,471	7/12/1994	Swoboda	, et al.	364	578	6/2/198	
	5,495,487	2/27/1996			714	736 28 22.1	9/7/198	
	5,329,471	7/9/1996	Swoboda	, et al.			5/4/198	
	5,623,500	4/22/1997		-	371		8/6/199	
	5,958,072	9/28/1999	Jacobs, e	t al.	714	30	1/13/199	
	6,457,148	9/24/2002		_	714	718	2/9/199	
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CB		2001/0014959 A1	8/16/2001	Whetsel			714	724	3/27/1997
		2001/0049803 A1	12/8/2001	Kurafuji			714	30	2/20/2001
<b></b>	4	2002/0133774 A1	9/19/2002				714	738	11/9/2001
<b></b>	-	2002/0194565 A1	12/19/2002				714	729	8/18/2001
<del>                                     </del>		2002/0199143 A1	12/26/2002				714	726	3/15/2002
-	+	2003/0005379 A1	1/2/2003				714	726	6/28/2001
	+	2003/0014704 A1	1/16/2003	_	8	t	714	736	
CB	+	2003/0033556 A1 2003/0140295 A1	2/13/2003 7/24/2003		t al		714 714	. 25 733	3/18/2002 1/18/2002
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